

($21^{\circ}26'N$ to $158^{\circ}43'W$ at 1400)

Location $21^{\circ}54'N$ to $159^{\circ}36'W$ to $20^{\circ}55'N$ to $157^{\circ}52'W$

Observer

Date 11 April, 1965 Time 0500 to 1850

Weather

98

114 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	1							
Wedge-tailed Shearwater		95						2 dark phase, 1st Immature phase 97
Christmas I. Shearwater	2							
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	2							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	3							
Masked Booby								
Brown Booby								
Red-footed Booby		15						
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		118				12.0		
Gray-backed Tern								
Brown-winged Tern								
Common Noddy		223						
Hawaiian Noddy								
Blue-gray Noddy	3							
Fairy Tern	1							
Sooty Shearwater		80	76					
Newell Shearwater	3							
Leach's Storm Petrel	8							
Tropic Storm Petrel	33							
Tern	1							
Gull	1							
Storm Petrel	5							
Shearwater-Petrel	8							
								Total Birds = 603

APP/1

($18^{\circ}33'N$ $\approx 156^{\circ}58'E$ at 1208)

Location $19^{\circ}19'N$ & $157^{\circ}08'W$ to $17^{\circ}27'N$ & $157^{\circ}00'W$

Observer

Date 12 April, 1965 Time 0613 to 1843

Weather

123

1½ miles

($4^{\circ}38'N$ > $157^{\circ}00'w$ at 1200)

Location $15^{\circ}38'W$ to $15^{\circ}00'W$ to $13^{\circ}34'W$ to $15^{\circ}58'E$

Observer

Date 13 April, 1965 Time 0614 to 1841

Weather

124 miles

12,5

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	6							all light phase 0.5
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel		12						
Sooty Petrel								
Red-tailed Tropicbird	/							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern						0.0		
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
<i>Sooty Shearwater</i>	36	33						
<i>Leach's Storm Petrel</i>	12							
<i>Pomarine Jaeger</i>	3							
<i>Shearwater-Petrel bird</i>	12							7.0
	6	6						Total birds = 88

(11°29'W > 156°54'E at 6200')

Location $11^{\circ}43'N$ & $156^{\circ}53'E$ to $10^{\circ}53'N$ & $155^{\circ}43'E$

Observer

Date 14 April, 1965 Time 0612 to 1833

Weather

12.4

87 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	.							
Wedge-tailed Shearwater	57							1 light phase next dark 4.6
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	24							
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	75							6.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
<i>Sooty Shearwater</i>	44							
<i>Leach's Storm Petrel</i>	24							
<i>Pomarine Jaeger</i>	1							
<i>Tropicbird</i>	1							18.6
<i>Shearwater - Petrel</i>	4							Total count = 231

$(11^{\circ}02'N \wedge 154^{\circ}4'W \text{ det 200})$

Location $10^{\circ}00'w$ to $11^{\circ}05'w$ to $12^{\circ}04'w$ & $12^{\circ}02'w$

Observer

Date 15 April, 1965 Time 0606 to 1828

Weather

124 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	42							4 light phases 3, 4
Christmas I. Shearwater	1							
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	1							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	2							
Masked Booby	1							
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		252						20,3
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	20							
Leach's Storm Petrel	10							
Wedell's Shearwater	6							
Pomarine Jaeger	5							
juv Gull	3							29.0
	2							
Shearwater-Petrel	15							Total birds = 360

($14^{\circ}5'N$ & $153^{\circ}59'W$ at 1200)

Location $14^{\circ}0'N$ & $153^{\circ}58'W$ to $16^{\circ}06'N$ & $154^{\circ}01'W$

Observer

Date 16 April, 1965 Time 0602 to 1832

Weather

12.5

125 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	55							3+ dark phase 4.4
Christmas I. Shearwater	1							
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	9							
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	2							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		241						19.3
Gray-backed Tern								
Brown-winged Tern								
Common Noddy	5							
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	2							
Sooty Shearwater		31						
Wedge-tail Shearwater		1						
North Petrel		1						
Leach's Storm Petrel		22						
Pomarine Jaeger		10						
Tropicbird		1						
Tern		2						31.8
Shearwater - subl		4						
		10						total birds = 398

(19° 2' W & 154° 08' W at 1208)

Location $18^{\circ} 10' N$ & $153^{\circ} 52' W$ to $20^{\circ} 17' N$ & $153^{\circ} 56' W$
Observer Date 17 April, 1965 Time 0558 to 1835
W.M.

Weather

Date 17 April, 1965 Time 0558 to 1835

Weather

126

127 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	64							all light phase S. I
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	16							
Sooty Petrel								
Red-tailed Tropicbird	2							
White-tailed Tropicbird	1							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	4							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	455							36, I
Gray-backed Tern								
Brown-winged Tern								
Common Noddy	15							
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	14							
<i>Sooty Shearwater</i>	17							
<i>Newells Shearwater</i>	3							
<i>Mottled Petrel</i>	2							
<i>Leach's Storm Petrel</i>	28							
<i>Phalarope</i>	1							54, 8
<i>Tern</i>	2							
<i>Shearwater-Petrel</i>	66							Total birds = 690

($23^{\circ}19'N$ > $153^{\circ}58'E$ at 200)

Location $22^{\circ}06'N$ $\Rightarrow 154^{\circ}00'W$ to $23^{\circ}32'N$ $\Rightarrow 152^{\circ}57'W$

Observer

Date 18 April 1965 Time 0555 to 1834

Weather

127

140 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross	1							
Black-footed Albatross	9							
Wedge-tailed Shearwater	9							all light blue 0.7
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	2							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	92							7.2
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
<i>Sooty Shearwater</i>	11							
<i>Leach's Shearwater</i>	2							
<i>Short-tailed Shearwater</i>	5							
<i>Pomarine Jaeger</i>	2							
<i>White-tailed Tropicbird</i>	5							
<i>Tern</i>	2							
<i>Phalarope</i>	1							12.3
<i>Jaeger</i>	2							
<i>Shearwater-Petrel</i>	21							
								Total birds = 159

($22^{\circ}10'N$ \times $151^{\circ}01'W$ at 1200)

Location $23^{\circ}22'N$ \times $151^{\circ}03'W$ to $21^{\circ}05'N$ \times $150^{\circ}57'W$

Observer

Date 19 April, 1965 Time 0539 to 1825

Weather

12.9

137 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross	1							
Black-footed Albatross	3							
Wedge-tailed Shearwater	1							dark phase 0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	1							
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	5							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	11							0.9
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	6							
Wedgetail Shearwater	1							
Leach's Storm Petrel	18							
Pomarine Jaeger	4							
Tern	1							
Jaeger	3							4.5
Pheasant-tailed Jaeger	1							
								Total birds = 57

(18°00' S & 151°01' W at 1200)

Location $15^{\circ}09'N$ & $150^{\circ}53'W$ to $17^{\circ}25'N$ & $150^{\circ}59'W$

Observer

Date 20 April 1965 Time 05-43 to 1821

Weather

126

104 mils

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	/							
Wedge-tailed Shearwater	/							all light phase 0.3
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	6							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	/							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	33							2.6
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	10							
Leach's Storm Petrel	7							
Newell's Shearwater	5							
Mottled Petrel	1							
Kermadec Petrel	1							dark phase
Tropicbird	2							
Tern	1							
Fregetta Shearwater-Petrel	1							6.0
bird	1							
								T. Lat. (end) = 75

(14°31'N x 151°05'W at 1200)

Location $15^{\circ}27'N \rightarrow 15^{\circ}02'N$ to $13^{\circ}22'N \rightarrow 15^{\circ}00'W$

Observer

Date 21 April 1965 Time 0546 to 1818

Weather

12.5

125 miles

SPECIES	Abundance					Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young		
Laysan Albatross									
Black-footed Albatross									
Wedge-tailed Shearwater	10								all light phase 0-8
Christmas I. Shearwater									
Audubon's Shearwater									
Bonin I. Petrel									
Phoenix I. Petrel									
Bulwer's Petrel	1								
Sooty Petrel									
Red-tailed Tropicbird									
White-tailed Tropicbird									
Masked Booby									
Brown Booby									
Red-footed Booby									
Great Frigatebird									
Golden Plover									
Ruddy Turnstone									
Wandering Tattler									
Sanderling									
Bristle-thighed Curlew									
Sooty Tern	27							2.2	
Gray-backed Tern									
Brown-winged Tern									
Common Noddy									
Hawaiian Noddy									
Blue-gray Noddy									
Fairy Tern									
Sooty Shearwater	5	2							
Newell's Shearwater	4								
Arctic Tern	1								
Leach's Storm Petrel	5								
Pomarine Jaeger	1								
Tern	1							6.4	
Large Shearwater	1								
Shearwater-Petrel	11								
								Total Birds = 67	

($11^{\circ}19'W \approx 150^{\circ}39'E$ at 1200)

Location $11^{\circ}37'N$ & $150^{\circ}59'W$ to $10^{\circ}50'N$ & $149^{\circ}42'W$

Observer

Date 22 April 1965 Time 0549 to 1811

Weather

12.4

93 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	3							1 dark phase 0.2
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	4							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby	2							
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	42							3 41
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	1							
<i>Sooty Shearwater</i>	7							
<i>Leach's Storm Petrel</i>	9							
<i>Tropicbird</i>	1							
<i>Tern</i>	1							
<i>Gull</i>	1							
<i>Large Shearwater</i>	3							
<i>Shearwater Petrel</i>	3							
								63
								Total birds = 78

($10^{\circ}58'W$ > $148^{\circ}05'W$ at 1,200)

Location $10^{\circ}02'N$ to $14^{\circ}05'N$ to $11^{\circ}50'W$ to $14^{\circ}03'W$

Observer

Date 23 April 1965 Time 0538 to 1805

Weather

108 miles

13

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	3							all light phase 0, 2
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	1							
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby	1							
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		145					11.6	
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	3	2						
Leach's Storm Petrel		13						
Pale-footed Shearwater	1							
Large Heermann Shearwater-Petrel	17							16.6
	21							Total birds = 206

(140°36' E & 147°58' W at 1200)

Location $13^{\circ}35'N$ $7148^{\circ}00'W$ to $15^{\circ}50'N$ $7147^{\circ}57'W$.

Observer

Date 24 April 1965 Time 0535 to 1809

Weather

100

135 miles

($18^{\circ}52'W$ to $147^{\circ}59'W$ ad 200)

Location $17^{\circ}34'N$ to $147^{\circ}56'W$ to $19^{\circ}55'N$ to $147^{\circ}57'W$

Observer

Date 25 April 1965 Time 0129 to 1814

Weather

12.5

141 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	/							light 0, 1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	2							
White-tailed Tropicbird	/							
Masked Booby	/							
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern							0, 0	
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	/							
Leach's Storm Petrel	11							
Pale-footed Shearwater	/							
Jaeger	1							
Tern	1							1, 8
Phalarope	1							
Shearwater-Petrel	2							
								Total birds = 23

($23^{\circ}02' \text{N}$, $147^{\circ}59' \text{E}$ at 200)

Location 21°54'N > 147°56'W to 24°05'N > 147°54'W

Observer

Date 26 April 1965 Time 0724 to 818

Weather

12.

135 mils

($26^{\circ}03'W$ to $148^{\circ}44'W$ at 1200)

Location $26^{\circ}03'W$ to $148^{\circ}03'W$

Observer

Date 27 April 1965 Time 0520 to 1828

Weather

13.1

153 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross	1							
Black-footed Albatross	4							
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	4							
Sooty Petrel								
Red-tailed Tropicbird	6							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern							0.0	
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
<i>6.6</i>								
Sooty Shearwater	8							
Leachs Storm Petrel	45							
Arctic Tern	7							
<i>Tern</i>	1							<i>6.5</i>
<i>bird</i>	2							
<i>Shearwater-Petrel</i>	2							
								Total birds = 85

($25^{\circ}00'w$ > $152^{\circ}03'w$ at 1200)

Location $25^{\circ}04'N$ $\neq 151^{\circ}31'W$ to $24^{\circ}59'N$ $\neq 151^{\circ}10'W$

Observer

Date 28 April 1965 Time 0532 to 1845

Weather

143 miles

130

$124^{\circ}36' \text{W}$ or $157^{\circ}08' \text{E}$ at 1200)

Location $23^{\circ}01'v \times 156^{\circ}22'w$ to $23^{\circ}24'v \times 156^{\circ}59'w$

Observer

Date 24 April 1965 Time 0551 to 1855

Weather

131

125 miles

($21^{\circ}31' \text{S}$, $157^{\circ}23' \text{E}$ at 0900)

Location $21^{\circ}57'0\text{s}$ τ $157^{\circ}02'w$ to $21^{\circ}15'0\text{s}$ τ $157^{\circ}50'w$

Observer

Date 50 April 1965 Time 0557 to 1220

Weather

卷之四

67 miles